

BLACKHAWK

SOCKET & WRENCHES



BLACKHAWK

QUALITY
SERVICE FINISH

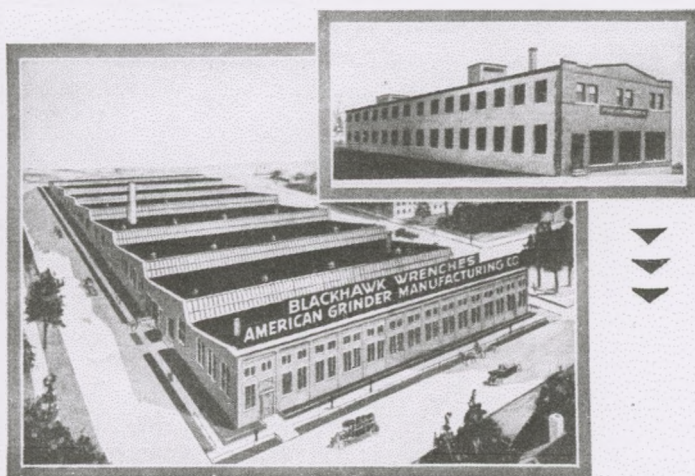
RUST-  PROOF

WRENCHES

CATALOG No. 3

Copyrighted 1919

A COMPLETE LINE OF SOCKET WRENCHES USED BY THE
AUTOMOTIVE TRADE IN GENERAL, FOR AUTOMOBILES,
TRACTORS, MOTOR TRUCKS, AEROPLANES, GARAGES,
SERVICE STATIONS, MACHINE SHOPS, ETC.



AMERICAN GRINDER MFG. CO.
MILWAUKEE, WIS., U. S. A.

SELLING AGENTS: C. N. & F. W. JONAS

| | | |
|----------------------------------|-----------|---------------------|
| Transportation Bldg. | - - - - - | Chicago, Ill. |
| 111 New Montgomery St. | - - - - - | San Francisco, Cal. |
| 708 Equitable Savings Bank Bldg. | - - - - - | Los Angeles, Cal. |
| 616 Pioneer Bldg. | - - - - - | Seattle, Wash. |
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| 710 McArthur Bldg. | - - - - - | Winnipeg, Canada |

New Progress in Wrench Making

BLACKHAWK wrenches mark a distinctive step forward in wrench-making. They are different. They have been designed and made along new lines that have established new standards. Their great strength, simplicity, finish, versatility and general superiority are the subject of comment wherever wrenches are used or sold.

There are Blackhawk individual wrenches and combination wrench sets for garages, automobilists, machinists, engineers, tractors, aeroplanes and service station use. When invention introduces a new, practical type of machine, a Blackhawk wrench is soon ready to serve that particular assembling or repair need.

Attention to every little detail that will make for Blackhawk superiority, is the main ideal of the American Grinder Mfg. Co., Manufacturers of the Blackhawk line. For example, Blackhawk Wrenches are treated by the Parker Rust-Proof Process, which imparts a fine, black, lasting finish to the tool. This treatment is an effectual rust preventative used in gun making. The unusual strength of Blackhawk wrenches is obtained by machine-turning the sockets from the solid steel bar. They are broached out, 1/64-inch oversize to insure perfect fit.

When you see Blackhawk Wrenches, you are immediately impressed by their sturdy build, serviceable shapes and permanent, non-rusting finish.

A large modern factory, equipped with special types of modern machines, is devoted exclusively to the manufacture of Blackhawk Wrenches.

The American Grinder Mfg. Co., as its name suggests, also manufactures grinders—not common grinders—but, Quality Tool Grinders which have earned the distinction of being the finest grinders made. A special catalog of the latter product will be mailed upon request.



BLACKHAWK

Combination Wrench Sets

For Automobilists, Machinists, Engineers,
Tractors, Aeroplanes, Garage
and Service Station Use.

Built Strong — Guaranteed

Blackhawk Combination Socket Wrench Sets are superior to any other line of similar sets on the market, not only in quality, but for efficiency and finish. They are made of the very best material throughout. The sockets are machine turned from the solid steel bar and properly tempered. The opening of all sockets are accurately broached 1/64" over size, which insures perfect fit and unlimited service. Set No. 10 is very complete and will enable the user to

reach places difficult of access or in cramped quarters, where the ordinary type of wrench is out of the question. To meet all conditions, we have included our guaranteed ratchet wrenches, brace wrench, extension bars, universal joint, etc.

All these tools are finished with the Parker rust proof process which insures against rust, making them very popular for motor boat, automobile, motor cycle, aeroplane, garage and service station use.



No. 10. Set

Contains 9" ratchet wrench, 2 extension bars, pipe wrench, brace wrench, Universal joint, 2 spark plug sockets, 5 open end thin wrenches, pliers, combination tee and offset handle, double end screw driver, valve grinding attachment, cotter pin puller, 16 hex. sockets, sizes, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2 , $2\frac{1}{4}$, $2\frac{1}{2}$, $2\frac{3}{4}$, 3 , $3\frac{1}{4}$, $3\frac{1}{2}$, $3\frac{3}{4}$, 4 , $4\frac{1}{4}$, $4\frac{1}{2}$, $4\frac{3}{4}$, 5 , $5\frac{1}{4}$, $5\frac{1}{2}$, $5\frac{3}{4}$, 6 , $6\frac{1}{4}$, $6\frac{1}{2}$, $6\frac{3}{4}$, 7 , $7\frac{1}{4}$, $7\frac{1}{2}$, $7\frac{3}{4}$, 8 , $8\frac{1}{4}$, $8\frac{1}{2}$, $8\frac{3}{4}$, 9 . The case is a heavy wooden box, with hinged cover and in mahogany finish.

"Please order in unit packages." (10 wrenches).



Combination Socket Wrench Sets

A complete set with Ratchet Wrench, sockets, extension bars, etc. Desirable set for garage or shop use. Guaranteed machined steel sockets.



No. 8. Set

- 16 Machined steel hex sockets, sizes $\frac{1}{8}$ to $1\frac{1}{4}$ inclusive.
 - 3 Machined steel sq. sockets, sizes $\frac{1}{8}$ - $\frac{1}{2}$ - $\frac{3}{8}$
 - 1 Ratchet wrench, 9" hdl.,
 - 2 Extension bars, 6" and 10" long,
 - 1 Universal joint,
 - 5 Open end wrenches,
 - 1 Comb. tee and offset hdl.,
 - 1 Spark plug socket double end,
- Packed in wooden box.

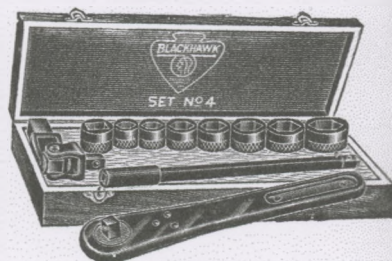


No. 6. Set

- Desirable Set for Car Owner
- 15 Hex. Machined steel sockets, sizes $\frac{1}{8}$ to $1\frac{1}{4}$ inclusive.
 - 1 9" ratchet wrench,
 - 1 Universal joint,
 - 1 Extension bar-8",
 - 1 Comb. tee and offset hdl.
- Packed in wooden box

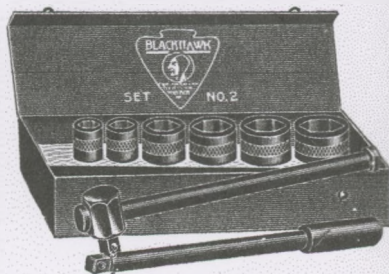
Combination Socket Wrench Sets

Complete set for Ford owner; will cover all standard nuts and bolt heads.



No. 4. Set Contains

- 7 Hex. Machined sockets, sizes $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$.
 - 1 Sq. machined socket, size $\frac{1}{8}$.
 - 1 9" ratchet wrench,
 - 1 Universal joint,
 - 1 Extension bar - 8",
- Packed in wooden box.



No. 2. Set

A small but handy set for Automobile, Motor Cycle, etc.

Contains

- 6 Hex. machined sockets, sizes $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{4}$, $\frac{3}{16}$, $\frac{1}{8}$, $\frac{1}{16}$.
 - 1 Comb. tee and offset hdl.,
 - 1 Extension bar - 6".
- Packed in fibre box.

"Please order in unit packages." (10 wrenches).



No. 50 Stock Cabinet

Given free with assortment of Combination Wrench Parts. This stock cabinet, made up specially for the hardware and accessories store. Dealers will find ready sale for items contained in this most complete stock set. The cabinet is 21" high, 18" wide and 11" deep; each drawer arranged with compartments for the different size sockets, as well as for other items contained in cabinet.

With this stock cabinet you can supply your customers with wrenches for all kinds of work, whether for garage or service station use, manufacturer or farmer. Every tool guaranteed. All sockets are machine turned steel and 1/64" oversize.



No. 50 Stock cabinet contains:

Hexagon Sockets:

- 12 ea. 8 sizes 14 to 25
- 6 ea. 8 sizes 26 to 40
- 144—Total No. of Hex. Sockets.

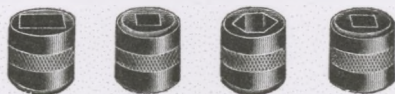
Square Sockets:

- 6 ea. 5 sizes 014 to 020
- 3 ea. 6 sizes 022 to 041
- 48—Total No. of Square Sockets.
- 4 ea. 4-B, 6-B, 8-B Bit Shanks
- 12 T-4 Offset and Tee Handles
- 4 ea. T-6, T-8, T-10 Extension Bars
- 6 T-2 Universal Joints
- 6 T-5 Offset Handles
- 6 T-7 Canvas Rolls
- 3 ea. 3329-3731 Spark Plug Wrenches
- 6 911 Ratchet Wrenches

Parts Contained In No. 50 Stock Cabinet

Please order by our stock numbers

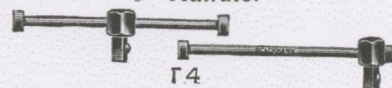
Extra Strong
Machined Steel Sockets



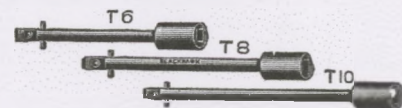
Hex. or Sq. Machined Sockets



No. 911 Ratchet Wrench
9" Handle.



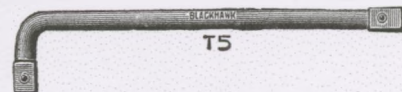
No. T-4 Off and Tee Hd



No. T-6 Extension Bar 6"
No. T-8 " " 8"
No. T-10 " " 10"



No. 4-B Bit shank 4"
No. 6-B " " 6"
No. 8-B " " 8"



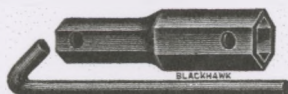
No. T-5 Double End Handle



No. T-2 Universal Joint



No. T-7 Canvas Tool Roll



No. 3329 3/8" x 1-1/32
No. 3731 3/4" x 1-5/32

"Please order in unit packages." (10 wrenches).



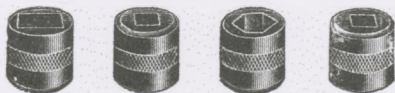
BLACKHAWK STEEL SOCKETS

Hexagon and Square.

Machined from the solid bar steel. Accurately broached $1/64$ " over size, insuring perfect fit. Heat treated and Parker rust proof finish. Every socket guaranteed.

Order by Stock Numbers

Extra Strong Machined Steel Sockets



SIZES BELOW ARE BOLT OR SCREW SIZES

| TABLE OF HEXAGON SOCKETS | | | | | | | |
|--------------------------|--------------|--------------------------|--------------------------|------------------------------------|-------------|---------------------------------------|-------------------------|
| NO. | SOCKET SIZES | U.S.S. NUTS SIZE BOLT | HEX. HEAD CAP. SCREWS | U.S. STD. NUTS & CAP. SCREWS | A. L. A. M. | MFRS. STD. BOLT HEAD SET SCREWS | HEX. HEAD SET SCREWS |
| 14 | 7-16 | ... | 1-4 | 1-4 | ... | 7-16 | ... |
| 16 | 1-2 | 1-4 | 5-16 | 5-16 | 3-8 | 1-2 | ... |
| 18 | 9-16 | ... | 3-8 | 3-8 | 3-8 | 9-16 | ... |
| 19 | 19-32 | 5-16 | ... | ... | ... | ... | 3-8 |
| 20 | 5-8 | ... | 7-16 | 7-16 | ... | 5-8 | ... |
| 22 | 11-16 | 3-8 | ... | ... | ... | ... | ... |
| 24 | 3-4 | ... | 1-2 | 1-2 | 1-2 | 3-4 | 1-2 |
| 25 | 25-32 | 7-16 | ... | ... | ... | ... | ... |
| 26 | 13-16 | ... | 9-16 | ... | ... | ... | ... |
| 28 | 7-8 | 1-2 | 5-8 | 9-16 | 9-16 | 7-8 | ... |
| 30 | 15-16 | ... | ... | 5-8 | 5-8 | ... | 5-8 |
| 31 | 31-32 | 9-16 | ... | ... | ... | ... | ... |
| 32 | 1 | ... | 3-4 | 11-16 | 11-16 | 1 | ... |
| 34 | 1-1-16 | 5-8 | ... | 3-4 | ... | 3-4 | ... |
| 36 | 1-1-8 | ... | 7-8 | ... | 3-4 | 1-1-8 | 3-4 |
| 40 | 1-1-4 | 3-4 | 1 | 7-8 | 7-8 | 1-1-4 | ... |

TABLE OF SQUARE SOCKETS

| NO. | SIZE OPENING | SQ. HEAD SET SCREW | SQ. HEAD U. S. S. CAP. SCREWS | SQ. HEAD U. S. S. NUT BOLT SIZE |
|-----|-----------------|-----------------------|-------------------------------------|---------------------------------------|
| 014 | 14-32 | 7-15 | 5-16 | ... |
| 016 | 1-2 | 1-2 | 3-8 | 1-4 |
| 018 | 9-16 | 9-16 | 7-16 | ... |
| 019 | 19-32 | ... | ... | 5-16 |
| 020 | 5-8 | 5-8 | 1-2 | ... |
| 022 | 11-16 | ... | 9-16 | 3-8 |
| 024 | 3-4 | 3-4 | 5-8 | ... |
| 025 | 25-32 | ... | ... | 7-16 |
| 028 | 7-8 | 7-8 | 3-4 | 1-2 |
| 034 | 1-1-16 | ... | ... | 5-8 |
| 041 | 1-9-32 | 1-1-4 | 1 | 3-4 |



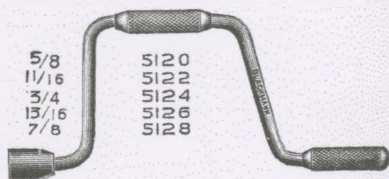
**GUARANTEED
BROACHED
STEEL
SOCKETS**

Standard Packages

All wrenches and parts packed 10 to a package. Please order in unit packages.

Demountable Rim Brace Socket Wrench

The wrench for use on demountable rims for car owner, or for use in garage or service station. Has solid steel knurled swivel handles, which is far more serviceable than wooden handles. Sockets are the best. Parker rust proof finish. See that BLACKHAWK is stamped on the wrench which insures perfect satisfaction and guarantee.



Sizes for Different Make Rims.

- 5120 Sizes $5/8$ " fits Kelsey Jaxon rims.
- 5122 Size $1 1/8$ " fits Fisk Dem., Goodrich, Firestone.
- 5124 Size $3/4$ " fits Baker, Continental, Detroit, Fisk, Stan. Weld, Goodyear.
- 5126 Size $1 1/8$ ", Stan-Weld No. 2, Universal.
- 5128 Size $7/8$ " fits Fisk tires.

When ordering BLACKHAWK wrenches use our stock numbers.

All BLACKHAWK wrenches are finished with the Parker rust proof process.



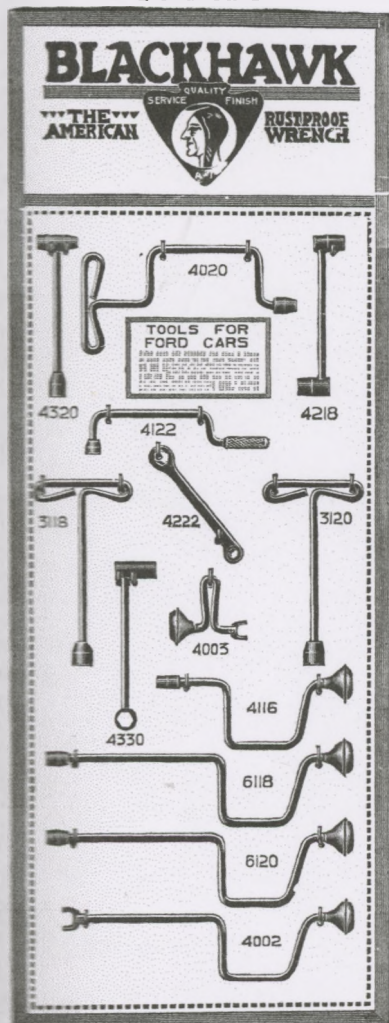
No. 500 Brace

To be used with combination parts.

"Please order in unit packages." (10 wrenches).



No. 400. Dealers' Display Set of Special Wrenches Used on Ford Cars



400 Set Contains:

- 4-4020 Connecting Rod Wrenches.
- 4-4320 Handy Socket Wrenches.
- 4-4218 Triple Socket Wrenches.
- 4-4222 Transmission Band Wrenches.
- 4-4122 Fly Wheel Cap Screw Wrenches.
- 4-3118 Long Tee Handle Wrenches.
- 4-3120 Long Tee Handle Wrenches.
- 4-4370 Heavy Triple Socket Wrenches.
- 4-4118 Short Speeders.
- 4-4003 Short Valve Grinders.
- 4-4002 Long Valve Grinders.
- 4-1118 Speed Wrenches.
- 4-6120 Speed Wrenches.

The tools on No. 400 display board consist of six of each style and are for use on Ford cars by the owner or repairman.

Every tool guaranteed. Repair men want tools that will speed up their work. BLACKHAWK TOOLS DO THIS, for they are made to fit, and will give efficient service and wear.

This display board is most attractive and is an asset to any store. The face is made of sheet steel, handsomely lithographed, which makes it a permanent fixture. Given free with assortment of wrenches as listed under illustration.

Proper Wrenches For Use on Ford Cars

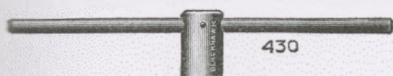
| | |
|---|------------------------|
| Axle housing bolt and nut | 4110-4320-6210-516-616 |
| Brake & rev. sup. nut & bolt | 3120-6120-520-420 |
| Brake shoe sup. nut | 4218 |
| Brake shoe sup. bolt | 520-3120-6120-420 |
| Brake band | 4222 |
| Clutch lever & release fork screws and nuts | 518-6118-618-3118 |
| Cylinder cover cap screws | 6118-618-518-3118 |
| Cylinder head cap screws | 6120-620-420-520-4320 |
| Cylinder head inlet con. screws | 4320 |
| Cylinder head outlet con. screws | 4320 |
| Cylinder valve cover nut and stud | 518-3118 |
| Cylinder cover bolt and nut | 618-6118-518-3118 |
| Cam gear lock nut | 438 |
| Crank case lower cover | 4116-4320-516-3116 |
| Crank shaft bearing nuts center, front and rear | 4218 |
| Crank case arm bolt and nut | 3118-518-1218 |
| Connecting rod clamp screws | 4218 |
| Connecting rods including 4th | 4020-4120-520-420 |
| Differential case stud and nuts | 4320 |
| Differential drive gear screws | 516-4116-4320 |
| Drive shaft pinion nut | 430-4330 |
| Drive shaft roller bearing nuts | 4320 |
| Fan bracket bolt | 4218 |
| Fan adj. screw and nut | 518-3118-6118-618 |
| Fly wheel cap screw nuts | 4122 |
| Fender iron bolt and nuts | 4116-616-516-4320 |
| Front spring clip nut | 4330 |
| Front spring tie bolt and nut | 4320 |
| Hub bolt and nut | 4330 |
| Lamp bracket nuts | 4218 |
| Inlet and exhaust clamp stud and nuts | 6118-618-518-3118 |
| Magnet bolt | 618-618-518-3118 |
| Main bearing nut | 4218 |
| Muffler bracket bolt and nuts | 6118-618-518-3118 |
| Muffler rod nuts | 4116-616-4320 |
| Radius rod ball joint | 618-420-3118 |
| Radiator stud nuts | 1218-3118-618-518 |
| Radius rod bolt and nut | 4330 |
| Rear spring clip nut | 4330 |
| Reverse band | 4222 |
| Running board bolt and nuts | 4320 |
| Slow speed con. lock nut | 4222 |
| Spindle arm nut | 4330 |
| Spindle bolt and spindle bolt nut | 4218 |
| Spindle con. rod bolt | 4218 |
| Steering arm nut | 1224-3125 |
| Steering gear post nut | 6124-4218-3124 |
| Steering post bracket | 618-518-4218-6118 |
| Transmission band adj. screws | 4222 |
| Transmission band adj. screw nut | 6118-618-3118 |
| Timer case support bolt | 4218-3118-518 |
| Transmission cover bolt & nut | 618-518-618-3118 |
| Universal ball cap screws | 518-3118 |

"Please order in unit packages." (10 wrenches).

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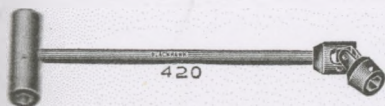


Guaranteed Tools for Use on Ford Cars



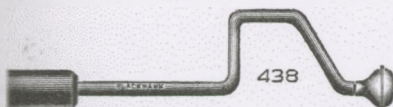
430 Pinion Gear Nut

15/16" Extra Heavy Socket for use on Drive Shaft Pinion nut, especially made for Garage and Service Station use.



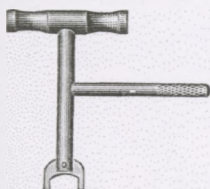
420 Triple Socket Wrench With Universal Joint

Socket sizes $\frac{5}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{8}$ ", particularly for garage and service station use. Made of very best material and fully guaranteed. Will fit fourth connecting rod, cylinder head bolts, engine base bolts, radius rod ball joint, etc. Also useful for work on other makes of cars. See directory.



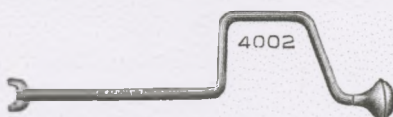
438 Cam Gear Lock Nut Wrench

Performs its duty with ease, while the old type of wrenches are almost useless. Desirable for garage and service station use.



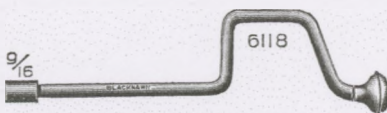
4003 Short Valve Grinder

Particularly designed to grind valve under dash when motor is not removed from the car.



4002 Long Valve Grinder

Used in all Ford Valves when motor is removed from the car. Can also be used in many other makes of cars.



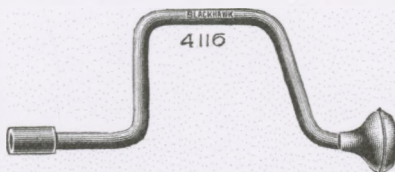
6118 Speeder

Extra heavy $\frac{1}{2}$ " stock $\frac{1}{8}$ " socket, especially designed for use on engine base bolts and on many of same parts as 3118. Use this wrench where speed is required.



6120 Speeder

Extra heavy $\frac{1}{2}$ " stock, $\frac{5}{8}$ " socket for use on Cylinder Head Bolts. For additional use see No. 3120, or directory.



4116 Short Speeder

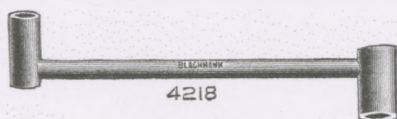
$\frac{1}{2}$ " Socket specially made for use on Crank case lower cover, when no pit is used. Also Fender nuts and Differential drive gear screws.

"Please order in unit packages." (10 wrenches).



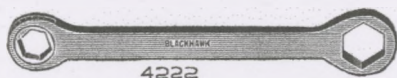
Guaranteed Tools for Use on Ford Cars

No. 700 Display Board



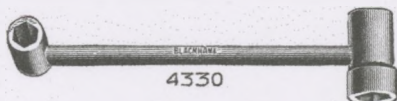
4218 Hammer Head Double Socket Wrench

Sizes of sockets $\frac{1}{2}$ " and $\frac{3}{4}$ ". Fits Crank Shaft (main) bearing nuts, steering gear post and bracket, Brake Shoe support, spindle bolt and nut, Fan bracket, Radius Rods ball joint nuts, Timer support arms, Lamp bracket nut. See directory for further uses.



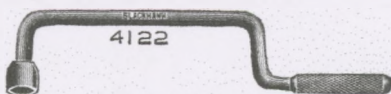
4222 Transmission Band Wrench

Especially designed for Transmission Bands (brake and reverse), using Ratchet end. $\frac{1}{2}$ " opening. $\frac{1}{8}$ " Hex. opening. Very best wrench for use on Champion X Spark Plug. No slipping off and breaking the porcelain of Plug.



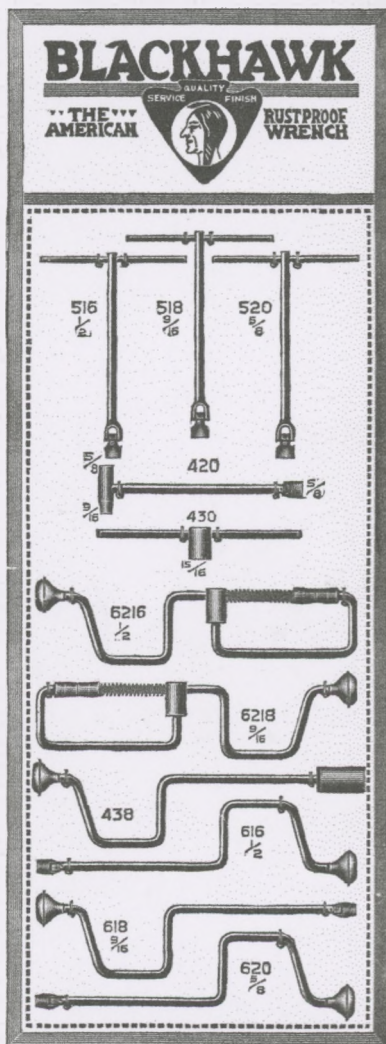
4330 Extra Heavy Triple Socket Wrench

Sizes of sockets $\frac{1}{2}$ ", $\frac{7}{8}$ " and $1\frac{1}{8}$ ". Fits spindle arm and Body bolt nut, rear and front spring clip nut, rear hub lock nut, Hub bolt and nut, Drive shaft Pinion nut, Radius Rod bolt and nut



4122 Fly Wheel Cap Screw Wrench

$\frac{1}{2}$ " socket, especially designed to properly perform its duty. Saves labor and money.



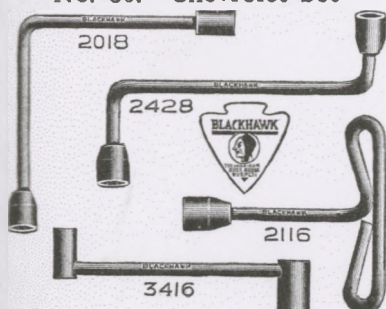
- 6— 516 Univ. Tee Handle Wrenches.
- 6— 518 Univ. Tee Handle Wrenches.
- 6— 520 Univ. Tee Handle Wrenches.
- 6— 420 Handy Universal Joint Wrench.
- 6— 430 Pinion Gear Nut Wrenches.
- 6— 6216 Improved Speed Wrenches.
- 6— 6218 Improved Speed Wrenches.
- 6— 438 Cam Gear Lock Nut Wrenches.
- 6— 616 Universal Joint Speed Wrenches.
- 6— 618 Universal Joint Speed Wrenches.
- 6— 620 Universal Joint Speed Wrenches.

"Please order in unit packages." (10 wrenches).



SPECIAL SOCKET WRENCH SETS FOR OWNERS USE, ALSO GARAGE AND SERVICE STATIONS

No. 30. Chevrolet Set



No. 2116

Tee Handle, $\frac{1}{2}$ " socket. Fits all bolts used on oil pan, rocker arm bracket, axle housing, battery hold down clamps, Bendix drive, oil pump, transmission cover, universal joint housing, transmission bearing retainer, generator, water pump cover, steering gear housing.

No. 3416

Double Socket Wrench, $\frac{1}{2}$ " square and $1\frac{1}{8}$ " hex. sockets fit clutch leather inserts, body bolt and nut, front spindle nut, rear wheel nuts, rear spring rear and front bolt.

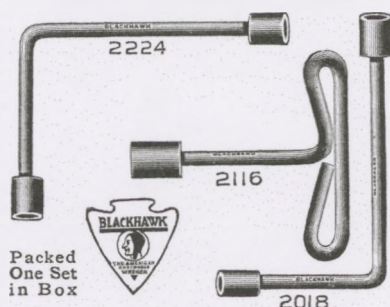
No. 2428

Double Socket Wrench, sizes $\frac{7}{8}$ " and $\frac{3}{4}$ " used on cylinder head bolts, transmission stud, transmission support bolts, clutch collar, main bearing nuts, Rear and front spring bolt.

No. 2018

L Double Socket Wrench, $\frac{1}{8}$ " and $\frac{5}{16}$ ". Fits all bolts, nuts and screws used on fender bracket, connecting rod, fly wheel cap, motor support, clutch yoke, radiator, differential case, connecting rod, upper end; axle housing, B.-G.; intake and exhaust manifold; transmission stud B.-G.; water outlet, rear motor, starting switch bracket, transmission support bracket, steering gear clamp.

No. 25. Maxwell Set.



No. 2224

L Double Socket Wrench, $\frac{3}{4}$ " and $1\frac{1}{8}$ " hex. sockets, used on crank shaft bearing bolts, rear axle nuts, cylinder head bolts and body bolts.

No. 2116

Tee Handle, $\frac{1}{2}$ " socket, used on differential case bolts, outside crank case cap screws, clutch case to transmission, water inlet manifold, transmission main shaft bearing bolts, front fender brackets, clamps for storage battery, steering gear housing bolts and starting switch bracket cap screws.

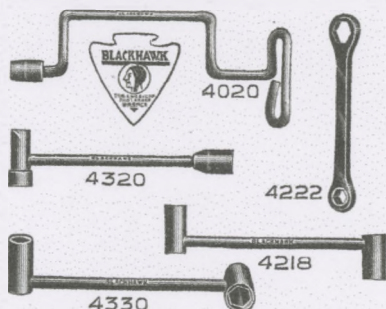
No. 2018

L Double Socket Wrench, sizes $\frac{5}{8}$ " and $\frac{3}{4}$ " fits flywheel cap screws, spring shackle bolts, spring clip nuts, running board bolt and nut, radiator nuts, speedometer bracket bolt, lamp bracket bolts, intake and exhaust manifold bolts, connecting rod nuts, gear case cover cap screws, clutch housing to motor bolts, rear main bearing, nuts, gear housing and main bearing to motor bolts, differential case nut, inside; gear shift housing bolts, cable connections on starter switch, connecting rod wrist pin clamp screw.

"Please order in unit packages." (10 wrenches).



No. 45. Ford Owner Set



Wrenches in this set will take care of practically all bolts and nuts on Ford Cars. Every Wrench Guaranteed and Parker Rust Proof Finish.

No. 4020

Fits all connecting rods, including 4th connecting rod.

No. 4218

$\frac{1}{8}$ " and $\frac{3}{4}$ " socket openings fits crank shaft bearings, radius rod, ball joint nuts, lamp bracket nuts, spindle con. rod, steering gear post, fan adj. bolt, brake shoe support, etc.

No. 4320

Has $\frac{1}{2}$ " and $\frac{5}{8}$ " sockets. Fits rear axle housing, lower crank case cover, cylinder head bolts, cylinder inlet and outlet connections, differential case, drive shaft roller bearing, running board fender, spring tie, controller shaft bracket.

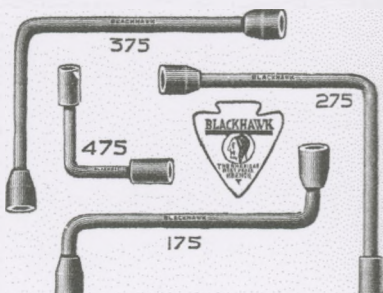
No. 4222

Fits all transmission bands. A great labor saving tool. The $\frac{15}{16}$ " hex. opening used on Champion X spark plug.

No. 4330

Has $\frac{1}{8}$ ", $\frac{7}{8}$ " and $\frac{15}{16}$ " socket openings. Fits front spring clips, drive shaft pinion, hub bolts and nuts, radius rod, spindle arm and spindle body bolts, rear hub lock nuts.

No. 750. Overland Set



No. 750. Set Overland Model 90

No. 175. Double Socket Wrench

Size opening $\frac{5}{8}$ " and $\frac{1}{2}$ " fits cylinder head bolts, front spring bolts, etc.

No. 475. Double Socket Wrench

Size opening $\frac{1}{2}$ " and $\frac{1}{8}$ " fits differential plate cap screw, gear case cover nut and bolts, exhaust manifold bolts, fender to frame nuts and bolts, transmission case cover, crank case screws, front splash pan bolts, differential cover, emergency hand brake lever, sector gasoline tank nuts, radiator stay rod nuts, side plate cap screws, spring clips.

No. 375. Double Socket L Wrench

Has $\frac{5}{8}$ " and $\frac{3}{4}$ " sockets. Fits steering post nuts, rear hub, cap and many places on other Overland models.

No. 275. Double Socket Wrench

$\frac{1}{8}$ " and $\frac{1}{4}$ " sockets. Fits connecting rod nut, main bearing nuts, and many places on other models of Overland cars.

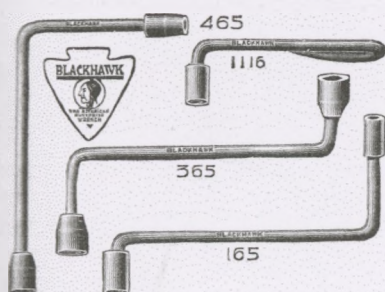
Above set of Wrenches are adaptable to many parts of other models of Overland cars.

When ordering Blackhawk Wrenches use our stock numbers.

"Please order in unit packages." (10 wrenches).



No. 650. Dodge Set



Dodge No. 165

Double Socket Wrench, sizes $\frac{7}{8}$ " and $\frac{1}{2}$ " hex. used on cyl. water inlet, rear axle housing, starter band, etc.

No. 1116

Offset $\frac{1}{2}$ " socket clutch housing cover, clutch pedal clamp, breather bolts, counter shaft, oil pan strainer and pipe connections, reverse gear bracket idler, steering gear, trans. case cover and plate, timer gear cover.

No. 365

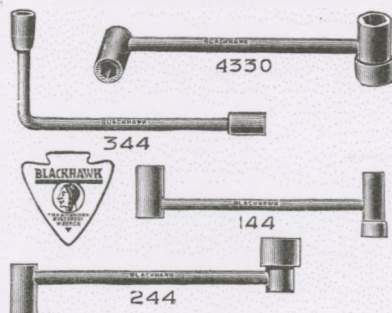
Double socket offset, $\frac{7}{8}$ " and $\frac{3}{4}$ " hex. sockets for crank shaft, main bearing, connecting rods, shifting shaft plunger and support for uni. joint housing.

No. 465

L Double Socket Wrenches, $\frac{1}{2}$ " and $\frac{1}{4}$ " hex. sockets used on crank case, cyl. head bolts, oil pump cover.

No Accessories or Tool Department complete without an assortment of Blackhawk Wrenches. Sales guaranteed. Write for copy of latest discount sheet.

No. 440. Buick Set



No. 4330

Triple Socket Wrench, sizes $15/16$ ", $7/8$ " and $1/2$ " hex. sockets used on hub bolts, motor arm bolts, nuts on wind shield, front spring shackles bolt and nuts and carburetor connection screws, engine arm bolts, steering arm, rear housing nuts and steering arm nuts.

No. 244

Double Socket Wrench, $3/4$ " and 1" used on connecting rod nuts for main bearing, steering gear screws, fan screws, crank case nuts, steering arm valve stem nuts.

No. 344

L Double Socket, sizes $1/2$ " and $5/8$ " hex. sockets, crank case lower cover screws, radiator bracket screws, fender bolts, rear housing cap screws, etc.

No. 144

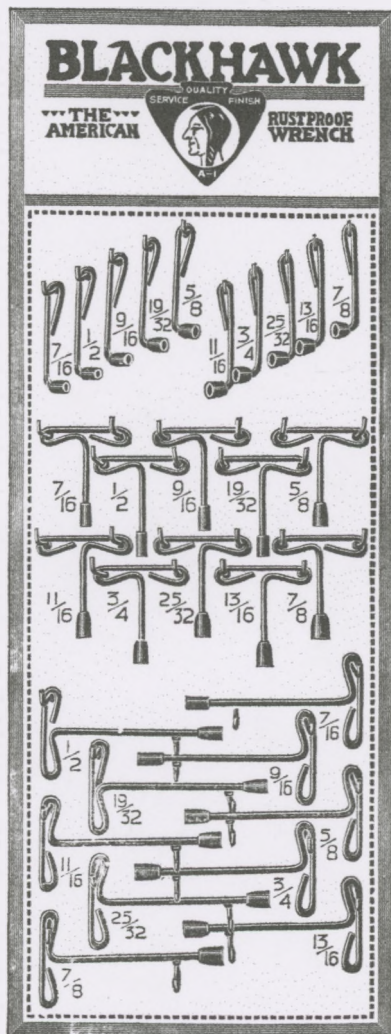
Offset with three sockets, $5/8$ ", $1/2$ " and $1/4$ " hex. used on differential housing screws, rear housing screws, transmission end plate nuts, brake lever nuts and cam shaft support to rods, torsion rods, muffler screws, generator to crank case bolts, break lever clamp screws, cam shaft collar, etc.

"Please order in unit packages." (10 wrenches).



No. 360. Display Set

This handsome display board given free, with the described assortment of wrenches. It is a great salesman. No hardware or accessories store is complete without this stock set.



No. 360 Set Contains

60—Tee Handle Wrenches, 12" Shk.

60—Tee Handle Wrenches, 6" Shk.

60—Offset Wrenches, 7" Handle.

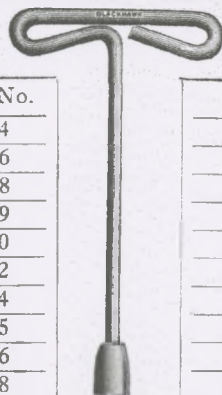
Total (180 Wrenches).

General Service Wrenches

Guaranteed Tools

Tee and Offset

Long T

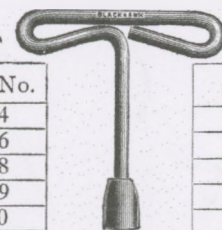


(12" shank)

| Stock No. |
|-----------|
| 3114 |
| 3116 |
| 3118 |
| 3119 |
| 3120 |
| 3122 |
| 3124 |
| 3125 |
| 3126 |
| 3128 |

| Size |
|-----------------|
| $\frac{7}{16}$ |
| $\frac{1}{2}$ |
| $\frac{9}{16}$ |
| $\frac{10}{32}$ |
| $\frac{5}{8}$ |
| $\frac{11}{16}$ |
| $\frac{3}{4}$ |
| $\frac{25}{32}$ |
| $\frac{13}{16}$ |
| $\frac{7}{8}$ |

Short T



(6" shank)

| Stock No. |
|-----------|
| 2114 |
| 2116 |
| 2118 |
| 2119 |
| 2120 |
| 2122 |
| 2124 |
| 2125 |
| 2126 |
| 2128 |

| Size |
|-----------------|
| $\frac{7}{16}$ |
| $\frac{1}{2}$ |
| $\frac{9}{16}$ |
| $\frac{10}{32}$ |
| $\frac{5}{8}$ |
| $\frac{11}{16}$ |
| $\frac{3}{4}$ |
| $\frac{25}{32}$ |
| $\frac{13}{16}$ |
| $\frac{7}{8}$ |



| Stock No. | Size | Stock No. | Size |
|-----------|-----------------|-----------|-----------------|
| 1114 | $\frac{7}{16}$ | 1122 | $\frac{11}{16}$ |
| 1116 | $\frac{1}{2}$ | 1124 | $\frac{3}{4}$ |
| 1118 | $\frac{9}{16}$ | 1125 | $\frac{25}{32}$ |
| 1119 | $\frac{10}{32}$ | 1126 | $\frac{10}{16}$ |
| 1120 | $\frac{5}{8}$ | 1128 | $\frac{7}{8}$ |

7" Handle

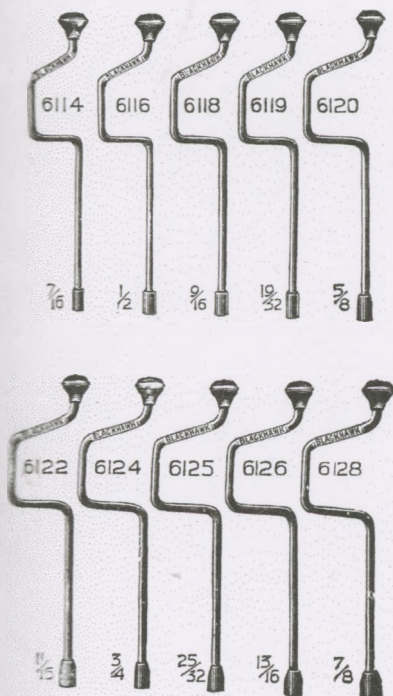
| Fit Max. Mean Size | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{9}{16}$ | $\frac{10}{32}$ | $\frac{5}{8}$ | $\frac{11}{16}$ | $\frac{3}{4}$ | $\frac{25}{32}$ | $\frac{13}{16}$ | $\frac{7}{8}$ |
|---------------------|----------------|----------------|----------------|-----------------|----------------|-----------------|---------------|-----------------|-----------------|-----------------|
| Fit Cap Screw Size | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{9}{16}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{15}{16}$ |
| Fit A.I.A.M. Size | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{9}{16}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{15}{16}$ | $\frac{15}{16}$ |
| Fit U.S.S. Nut Size | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{9}{16}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | $\frac{15}{16}$ |

"Please order in unit packages." (10 wrenches).



When ordering **BLACKHAWK Wrenches** use our stock numbers
All BLACKHAWK Wrenches are finished with the **Parker Rust Proof Process**.

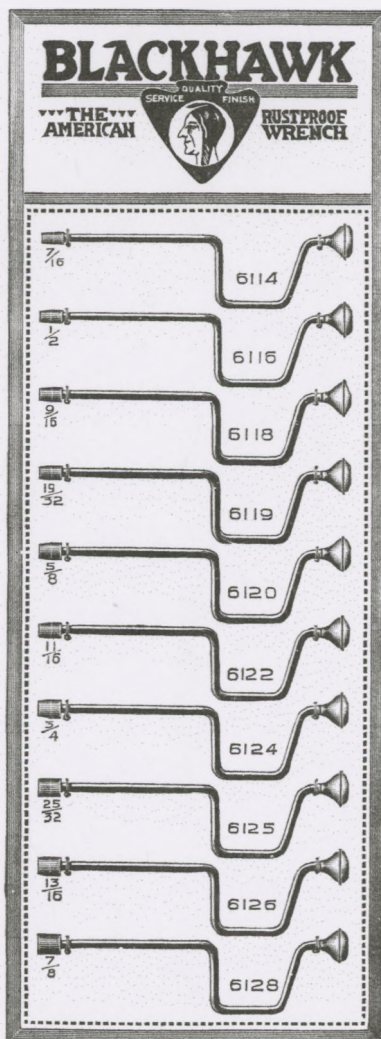
SPEEDERS No. 6100 Set



Speed wrenches have become very popular, owing to the speed obtained in taking down and assembling motor cars, trucks, tractors, etc., and are found in practically every garage. **BLACKHAWK** speeders are made heavy, with hardened sockets, steel knobs, handles and Parker rust proof finish. None better. Look for the name **BLACKHAWK** when ordering socket wrenches.

No. 600. Set

This display board given Free with assortment of Blackhawk Speeders. Dealers will find this a great help in making increased sales.

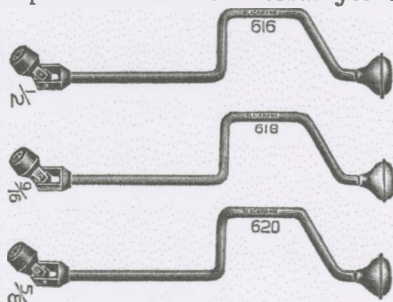


No. 600 Set contains 10 each size Speeders as shown on display board.

"Please order in unit packages." (10 wrenches).



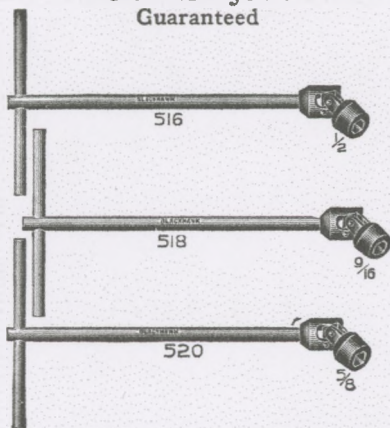
Speeders with Universal Joint



Socket Sizes, $\frac{1}{2}$ ", $\frac{3}{8}$ ", $\frac{5}{8}$ "

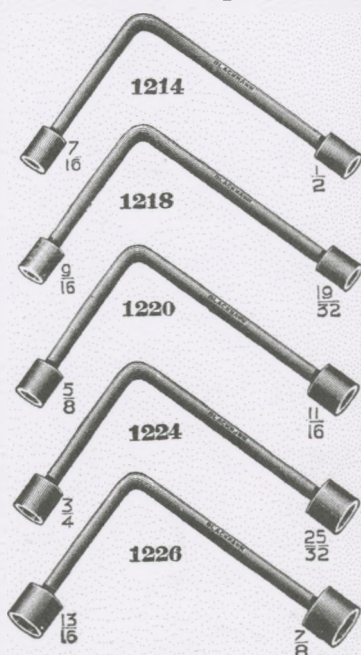
May be applied in many places, where the ordinary solid speeder cannot be used to advantage. These speed wrenches are made of the very best material and will give unlimited service. Every wrench guaranteed. Will be found most desirable for garage use. See directory.

Tee Socket Wrenches With Universal Joint Guaranteed



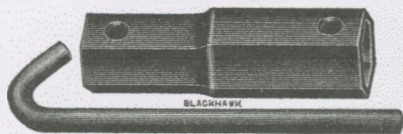
These wrenches are designed and made particularly for garage and service station use. Will save time in doing work and do it far better, as they will fit places where a particular style of wrench is needed. Made from the best material that can be obtained, and highest grade of workmanship. Every wrench guaranteed. Look for name BLACKHAWK when buying socket wrenches.

L Socket Wrenches No. 1200 Set.



Made strong and adaptable to many places where a Tee or speed wrench could not be used. Each wrench fitted with two sockets, making in reality 10 wrenches. A desirable set for all garages. No. 1200 Set (5 wrenches)

Double End Steel Spark Plug Wrench



No. 3329 29/32" x 1-1/32

No. 3731 31/32" x 1-5/32

Bit Brace Shank



No. 4-B Bit shank 4"

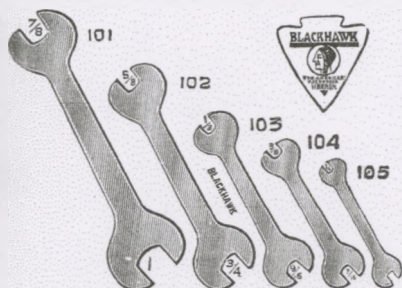
No. 6-B " " 6"

No. 8-B " " 8"

"Please order in unit packages." (10 wrenches).

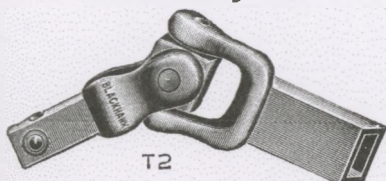


No. 100. Set Thin Open End Steel Wrenches



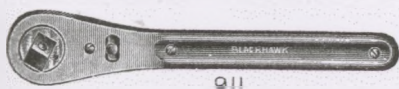
These wrenches are stamped, made from special steel and properly tempered. Will give satisfactory service.

Universal Joint



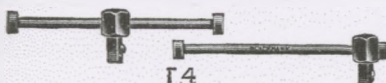
T-2 Extra quality dropped forged.

Ratchet Wrench



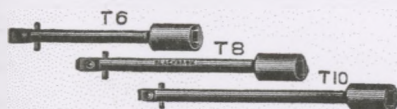
No. 911 Ratchet 9" handle.

Tee and Offset Handle



Used with Combination Parts.

Extension Bars

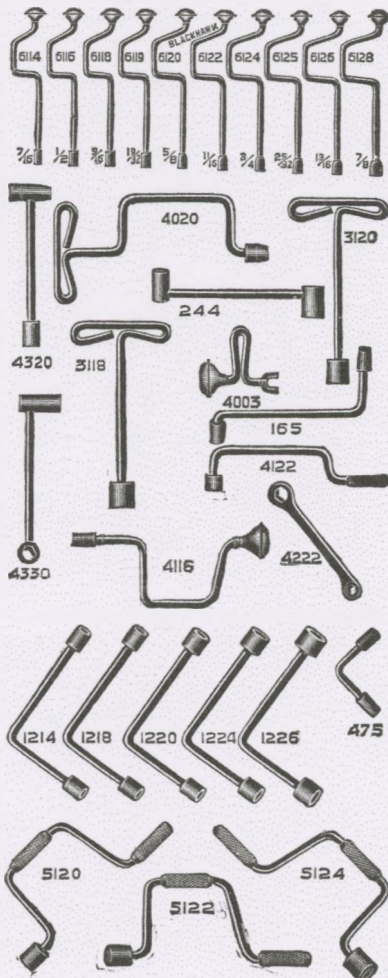


6", 8", 10" lengths,

Blackhawk Set No. 43

is a complete and necessary set of socket Wrenches, for use in a garage or service station.

There are no two size sockets on the same style handle. Wrenches in this set will fit many places on many different makes of cars.



Contains 30 tools packed in wooden box. See our directory for special use of different style Wrenches in this set.

"Please order in unit packages." (10 wrenches).



DIRECTORY

Showing use of Wrenches in Number 43 Service Station Set

The following list gives the number of the wrench which should be used on the respective places mentioned. Order all Blackhawk wrenches by our stock numbers.

Buick

| | |
|--|-----------|
| Air regulator tube bracket nuts..... | 244 |
| Brake shaft to frame nuts..... | 4320 |
| Cam shaft collar clamp screws..... | 4320 |
| Cam shaft supports to differential carrier cap screws..... | 4320 |
| Cap to yoke nuts..... | 4320 |
| Connecting rod nuts..... | 1218-1220 |
| Clutch pedal clamp screw..... | 4320 |
| Connecting rod nuts for main bearing..... | 244 |
| Crank case screws..... | 175 |
| Cylinder stud nuts..... | 244 |
| Differential to main housing cap screws..... | 4320 |
| End plate of transmission cap screws..... | 4320 |
| Front spring shackle bolts..... | 4330 |
| Generator studs..... | 165 |
| Housing cover cap screws..... | 1220-1224 |
| Insert connection carburetor screw..... | 4330 |
| Internal brake cam shaft clamp screw..... | 4320 |
| Motor arm bolt..... | 4330 |
| Muffler nuts..... | 165 |
| Auto brake lever clamp screw..... | 4320 |
| Radiator cap screws..... | 475 |
| Spark cross shaft lever clamp screws..... | 165 |
| Spring clip nuts..... | 244 |
| Steering arm nuts..... | 244 |
| Steering gear cap screws..... | 244 |
| Stop lever adjusting screw..... | 4320 |
| Torsion yoke cap screw..... | 165 |
| Transmission end plate assembling nuts..... | 4330 |
| Valve rocker arm bracket nuts..... | 475 |
| Valve stem nuts..... | 244 |
| Windshield to body nuts..... | 4330 |

Cadillac

| | |
|-------------------------------------|-----------|
| Clutch housing bolts..... | 4330 |
| Crank case nuts..... | 1218 |
| Differential bearing cap screw..... | 4330 |
| Timing gear cover nuts..... | 1218 |
| Water cap nuts..... | 1218 |
| Head lamp brackets..... | 1224 |
| Spring clip..... | 4320 |
| Steering rod adj. nut..... | 1220-6120 |
| Front hub nuts..... | 1224 |
| Front fender sup. bracket nuts..... | 244-165 |
| Cylinder head bolts..... | 6125-1224 |
| Exhaust manifold stud nuts..... | 3118-6118 |
| Engine plates front and rear..... | 4320 |

Chalmers

| | |
|----------------------------------|-----------|
| Brake lever bolts..... | 165 |
| Connecting rod nuts..... | 4320 |
| Crank case cover bolts..... | 4320-165 |
| Cylinder head nuts..... | 4320 |
| Differential cover nuts..... | 4320 |
| Fan Clamp screws..... | 244 |
| Intake manifold clamp screw..... | 4320 |
| Main bearing nuts..... | 4330 |
| Radiator bolts..... | 1220-1224 |
| Rear transmission bolt..... | 4320 |
| Spoke bolt nuts..... | 4330 |
| Universal joint cap screws..... | 4320 |

Cole 8

| | |
|---|---------------------|
| Front lamp bracket nut..... | 6120-1220 |
| Spring clip bolt heads..... | 4320 |
| Running board support bracket nuts, front, center and rear..... | 1218 |
| Front hub nuts..... | 1226 |
| Cylinder head nuts..... | 3122-6122 |
| Radiator to cylinder head water connection..... | 6122 |
| Radiator to pump connection..... | 4320 |
| Radiator nuts..... | 1220 |
| Exhaust manifold stud nuts..... | 6118 |
| Distributor clamp nuts..... | 2118 |
| Timing gear cover plate nuts..... | 4320 |
| Muffler & muffler bracket bolts and nuts..... | 4320-1220 |
| Rear spring to axle housing clamp nuts..... | 4330 |
| Differential housing bolts and nuts..... | 6118-3118-2118-1218 |
| Shifting rod bracket bolts and nuts..... | 4320 |
| Brake drum adj. nut..... | 1124 |
| Brake rod bracket nuts..... | 4320 |
| Rear hub bolt heads..... | 6124-1224 |
| Front and rear spring shackle nuts..... | 4330 |
| Front and rear spring clamps nuts..... | 4330 |
| Front fender to frame sup. bracket nuts..... | 165 |
| Front fender to frame sup. bracket nuts..... | 165 |
| Headlight bracket to frame nuts..... | 165 |

Chevrolet

| | |
|-------------------------------------|-----------|
| Axle housing..... | 1218 |
| Connecting rod..... | 1218 |
| Cylinder head bolts..... | 1224 |
| Front spring cap screw..... | 1126 |
| Intake & exhaust manifold nuts..... | 1218 |
| King bolts..... | 1218-1224 |
| Main bearing nuts..... | 244 |
| Rocker arm bracket..... | 1218 |
| Spring bolt rear..... | 4330 |
| Spring clip nuts..... | 4330 |
| Steering post nuts..... | 244 |
| Steering post sector gear..... | 1218-1220 |
| Transmission sup. bolts..... | 2418 |
| Fly wheel cap screws..... | 1218 |
| Radiator bolts..... | 1218 |
| Differential case bolts..... | 1218 |
| Fender bracket bolts..... | 1218 |

Dodge

| | |
|------------------------------------|------|
| Breather body bolt..... | 475 |
| Bushing adjusting plate..... | 475 |
| Clutch housing cover..... | 475 |
| Clutch pedal clamp..... | 165 |
| Connecting rod nuts..... | 244 |
| Countershaft..... | 175 |
| Crank case cap screws..... | 4116 |
| Crank shaft main bearing..... | 4330 |
| Cylinder water inlet nuts..... | 165 |
| Main bearing nuts..... | 4330 |
| Oil pan strainer..... | 475 |
| Oil pump cover..... | 475 |
| Radiator support stud nuts..... | 6120 |
| Rear axle housing cover screw..... | 165 |
| Reverse idler gear bracket..... | 475 |
| Shifting shaft plunger screw..... | 244 |
| Spoke bolts..... | 4330 |
| Starter strap nuts..... | 165 |
| Steering gear on wheel shaft..... | 475 |



(Dodge—cont'd)

| | |
|---|-----|
| Timing gear cover..... | 475 |
| Transmission case cover..... | 475 |
| Transmission cover plates..... | 475 |
| Universal joint housing support screws..... | 244 |

Essex

| | |
|---|----------------|
| Front spring to frame nut and bolt..... | 244 |
| Spring clip bolts and nuts..... | 4320 |
| Front hub nuts..... | 1122 |
| Spring shackle bolts and nuts..... | 244 |
| Radiator nuts..... | 4320 |
| Lamp bracket nuts and bolts..... | 165 |
| Exhaust to muffler manifold connection..... | 144 |
| Exhaust manifold stud nuts..... | 616-4320-6116 |
| Cylinder head nuts..... | 6126-3126 |
| Engine base bolts..... | 244 |
| Fan adjusting nut..... | 244 |
| Steering gear adjusting nut..... | 244 |
| Differential housing nuts & bolts..... | 1218-6118-3118 |
| Drive shaft housing nuts..... | 1122 |
| Rear spring to axle housing clip nuts..... | 4330 |
| Rear fender nuts..... | 6116-1214 |

Ford

| | |
|--|------------------------|
| Axle housing bolt and nut..... | 4116-4320-6216-516-616 |
| Brake & rev. sup. nut & bolt..... | 3120-6120-520-420 |
| Brake shoe sup. nut..... | 4218 |
| Brake shoe sup. bolt..... | 520-3120-6120-420 |
| Brake band..... | 4222 |
| Clutch lever & release fork screws and nuts..... | 518-6118-018-3118 |
| Cylinder cover cap screws..... | 6118-618-518-3118 |
| Cylinder head cap screws..... | 6120-620-420-520-4320 |
| Cylinder head inlet con. screws..... | 4320 |
| Cylinder head outlet con. screws..... | 4320 |
| Cylinder valve cover nut and stud..... | 518-3118 |
| Cylinder cover bolt and nut..... | 618-6118-518-3118 |
| Oil gear lock nut..... | 438 |
| Crank case lower cover..... | 4116-4320-516-3116 |
| Crank shaft bearing nuts center, front and rear..... | 4218 |
| Crank case arm bolt and nut..... | 3118-518-1218 |
| Connecting rod clamp screws..... | 4218 |
| Connecting rods including 4th..... | 4020-4120-520-420 |
| Differential case stud and nuts..... | 4320 |
| Differential drive gear screws..... | 516-4116-4320 |
| Drive shaft pinion nut..... | 430-4330 |
| Drive shaft roller bearing nuts..... | 4320 |
| Fan bracket bolt..... | 4218 |
| Fan adj. screw and nut..... | 518-3118-6118-618 |
| Fly wheel cap screw nuts..... | 4122 |
| Fender iron bolt and nuts..... | 4116-616-516-4320 |
| Front spring clip nut..... | 4330 |
| Front spring tie bolt and nut..... | 4320 |
| Wib bolt and nut..... | 4330 |
| Lamp bracket nuts..... | 4218 |
| Inlet and exhaust clamp stud and nuts..... | 6118-618-518-3118 |
| Magnet bolt..... | 618-6118-518-3118 |
| Main bearing nut..... | 4218 |
| Muffler bracket bolt and nuts..... | 6118-618-518-3118 |
| Muffler rod nuts..... | 4116-616-4320 |
| Radiator rod ball joint..... | 618-420-3118 |
| Radiator stud nuts..... | 1218-3118-618-518 |
| Radiator bolt and nut..... | 4330 |
| Rear spring clip nut..... | 4330 |
| Reverse band..... | 4222 |
| Running board bolt and nuts..... | 4320 |
| Slow speed con. lock nut..... | 4222 |
| Spindle arm nut..... | 4330 |
| Spindle bolt and spindle bolt nut..... | 4218 |
| Spindle con. rod bolt..... | 4218 |
| Steering arm nut..... | 1224-3125 |
| Steering gear post nut..... | 6214-4218-3124 |
| Steering post bracket..... | 618-518-4218-6118 |
| Transmission band adj. screws..... | 4222 |
| Transmission band adj. screw nut..... | 6118-618-3118 |
| Thrust case support bolt..... | 4218-3118-518 |
| Transmission cover bolt & nut..... | 618-518-6118-3118 |
| Universal ball cap screws..... | 518-3118 |

Haynes

| | |
|----------------------------------|-----------|
| Connecting rod nuts..... | 1218-1220 |
| Crank case cap screws..... | 3118 |
| Cylinder to motor base nuts..... | 6125 |
| Fan bracket bolt..... | 165 |
| Fender iron bracket nuts..... | 244 |
| Fly wheel pan cap screws..... | 3118 |
| Light bracket nuts..... | 244 |
| Main leaning bolts..... | 244 |
| Radiator nuts..... | 244 |
| Spoke bolt nuts..... | 4330 |
| Spring clip nuts..... | 4330 |
| Tire pump base cap screw..... | 3118 |
| Transmission cap screw..... | 3118 |

Hudson

| | |
|---|-----------|
| Connecting rod nuts..... | 4320-1220 |
| Connecting rod counterbalance weight..... | 244 |
| Crank case screws..... | 3118 |
| Cylinder crank case nuts..... | 4330 |
| Cylinder head bolts..... | 4330 |
| Exhaust manifold bolts..... | 4330 |
| Fan clamp screws..... | 244 |
| Main bearing bolts..... | 1220-1224 |
| Transmission bolt and nut..... | 244 |
| Water outlet bolts..... | 105 |
| Water pump to crank case bolts..... | 4320 |
| Front spring bolt nuts..... | 4330 |
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